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Abstract

Mapping symbols adopted by the Michigan Department of Natural Resources are presented with their explanations. In an effort to provide standardization and familiarity teachers and other school people involved in an outdoor education program are encouraged to utilize the same symbols in constructing maps. (DK)

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MAPPING OF OUTDOOR CLASSROOMS

The Michigan Department of Natural Resources has adopted some standard mapping symbols to use on their maps.

School people involved in an outdoor education program, and who have developed an outdoor classroom, should be encouraged to use this same uniform, standard system of constructing maps.

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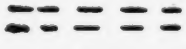
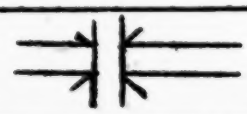
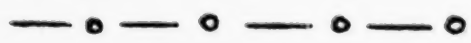
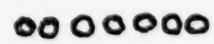
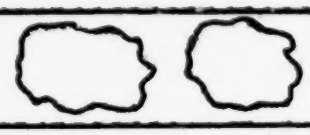
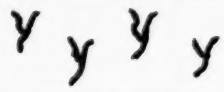
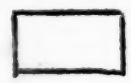
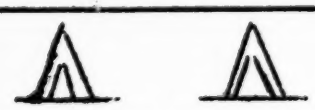
STANDARD MAPPING SYMBOLS

Classification	Symbol	Description
Marsh		Marsh lands periodically covered with standing water or interspersed with samll areas of open water and supporting sedges and swamp grasses (cane grasses, cattails, reeds, wild grass, willow, or other scattered lowland brush) or sedge and grass covered peat lands.
Rock		Rock ridges or knobs either bare or only sparsely covered with vegetation which will not be of commercial importance.
Sand Dunes or Beaches		Any exposed sand with very sparse grass or other cover.
Hard Surface Road		All roads that are surfaced with concrete, asphalt, or macadam.
Gravel Road		All roads that are surfaced over the entire width of the traveled crown with gravel, loose crushed stone, or cinders. If surfaced with such material for short intermittent stretches or only in the wheel tracks, then map as "good or poor dirt road."
Good Dirt Road		Any dirt road that shows evidence of frequent and regular public use and except for snow or the spring breakup is traveled at all seasons of the year. These roads receive at least some maintenance.
Poor Dirt Road		These roads show evidence of little or irregular use, may be driven with an automobile or truck at some seasons of the year, and are not regularly maintained.

Classification	Symbol
Railroads	
Electric Lines or Pipelines	
Lake or Pond	
*River (132 feet or wider)	
*River or Stream (Less than 132 feet wide)	
River Bridge	
Wire	
Barbed Wire	
Stone Fences	
Broad-leafed Trees	
Evergreens	
Orchard	
Cultivated Land	
Building	
Camp	

*NOTE: The arrow on rivers and streams should point in the direction of flow and should be spaced close enough together so the river, or stream. will not be mistaken for a type boundary.

Classification	Symbol	Description
Pine	W	White Pine - the predominant species in a stand primarily of pine.
	R	Red Pine - "
	J	Jack Pine - "
Lowland Hardwoods	E	Lowland Hardwoods - the lowland hardwood species (ash, elm, red maple, balsam poplar) are predominant singly or in combination.
Oak	O	Oak - the oak species (red, white, and other oaks) are predominant singly or in combination.
Aspen-Birch	A	Aspen - trembling, big-tooth aspen, balsam poplar, and paper birch are predominant singly or in combination.
Swamp Conifers	Q	Swamp Conifers - the swamp conifer species (black spruce, cedar, tamarack) are predominant singly or in combination.
	S	Black Spruce - swamp conifer type with over 50% black spruce.
	T	Tamarack - " tamarack.
	C	Cedar - " cedar.
Upland Brush	U	Upland Brush - potentially productive uplands with less than 10% stocking of tree species and supporting upland shrubs.
Lowland Brush	L	Lowland Brush - potentially productive lowlands with less than 10% stocking of tree species and supporting lowland shrubs.
Upland Grass	G	Upland Grass - potentially productive open upland areas with less than 10% stocking of tree species or shrubs and having a cover of either grass, ferns, or blueberries.